

**SHARP**

**PORTABLE MINIDISC  
RECORDER**

MODEL

**MD-MT877W**

**OPERATION MANUAL**

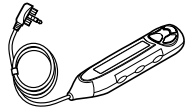

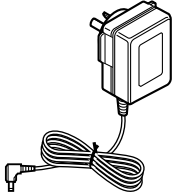
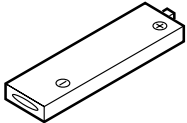
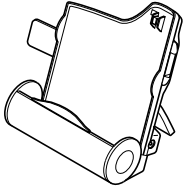
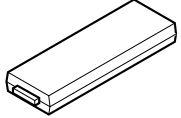
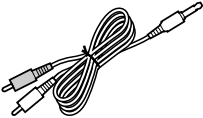
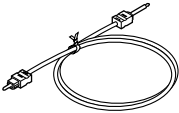
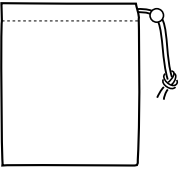
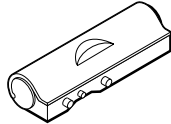
Thank you for purchasing this SHARP product.  
For the best performance, read this manual carefully.  
It will guide you in operating your SHARP product.



**MDLP**



## Accessories

 Remote Control x 1	 Earphones x 1	 AC Adaptor x 1	 Rechargeable Nickel-Metal Hydride Battery (AD-N55BT) x 1	 Battery Charger x 1
 Battery Carrying Case x 1	 Connection Cable (for analogue recording) x 1	 Connection Cable (for digital recording) x 1	 Carrying Bag x 1	 Battery Case x 1

### Notes:

- Parts and equipment mentioned in this operation manual other than those detailed above are not included.
- The AC adaptor may be different from the one in the drawing.



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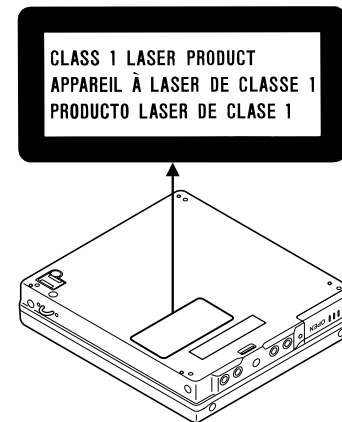
## Special Notes

### Warnings

- The supplied AC adaptor contains no user serviceable parts.  
Never remove covers unless qualified to do so. It contains dangerous voltages, always remove mains plug from the main outlet socket before any service operation or when not in use for a long period.
- The AC adaptor supplied with the MD-MT877W must not be used with other equipment.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing liquids.  
No objects filled with liquids, such as vases, shall be placed on the apparatus.
- The letters in brackets contained in the model number indicate the colour of the product only. Operation and specifications are unaffected.

### Caution

- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.
- When recording important selections, be sure to make a preliminary test to ensure that the desired material is being properly recorded.

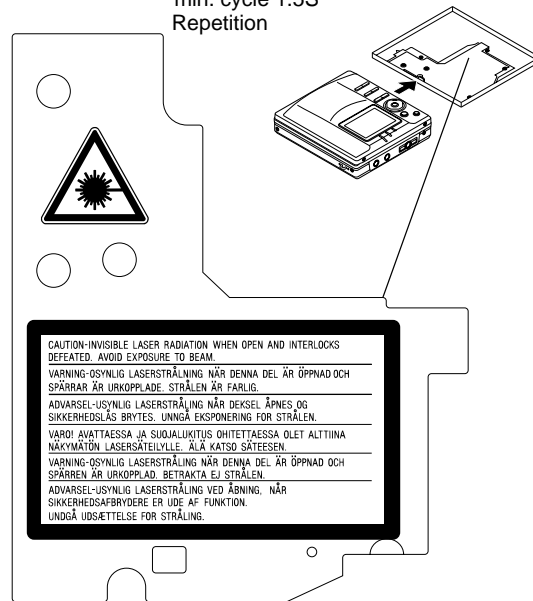


- This Portable MiniDisc Recorder is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the bottom.
- Use the Portable MiniDisc Recorder only in accordance with the instructions given in this manual and do not attempt to interfere with the interlock switch or make any other adjustment as this may result in exposure to hazardous radiation.



#### Laser Diode Properties

- Material: GaAlAs
- Wavelength: 785 nm
- Pulse time:
  - Read mode; 0.8 mW Continuous
  - Write mode; max. 10 mW 0.5S  
min. cycle 1.5S



#### Notes

US and foreign patents licensed from Dolby Laboratories.

#### Note for users in Australia

Copyright may exist in material you wish to record. Copying or broadcasting such material without permission of the relevant licensees or owners of the copyright is prohibited by law. SHARP is not in a position to authorise the copying or broadcasting of copyright materials and nothing in this OPERATION MANUAL should be implied as giving that authority.

#### For other countries

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright.

Please refer to the relevant laws in your country.



# Precautions

## Important

- Do not wear your earphones when you are crossing streets or near traffic.
- Do not use your earphones whilst driving a motor vehicle, it may create a traffic hazard and may be illegal. Remember to obey all of the safety rules in your area.
- Do not play the unit at a high volume. Hearing experts advise against extended listening at high volume levels.
- If you experience ringing in your ears, reduce the volume or discontinue use.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- This portable MD should only be used within the range of 0°C - 40°C (32°F - 104°F).



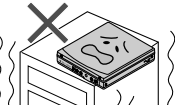
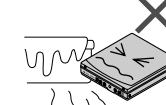
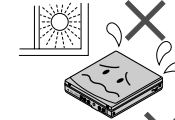
### To avoid accidental electric shock or other possible problems, observe the precautions listed below.

- Do not disassemble or modify the unit.
- Do not drop or subject the unit to shock.
- Do not use the unit near open flames.
- Do not spill liquid on the unit.
- Do not use an external power supply, other than the 5V DC supplied with this unit, as it may damage it.
- SHARP is not responsible for damage due to improper use. Refer all servicing to a SHARP authorised service centre.

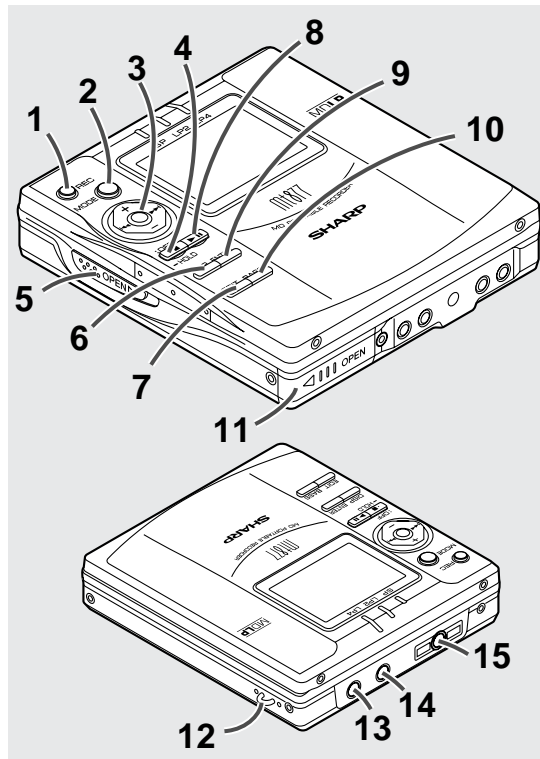
## Storing the unit

### Avoid using or leaving the unit in the following places.

- Places exposed to direct sunlight for many hours (especially in cars with the doors and windows closed) or near heaters. (The cabinet may deform, change colour or the unit may malfunction.)
- Places exposed to excessive dust.
- Places exposed to water.
- Places where temperatures are excessively high or low.
- Places (bathrooms) where the humidity is extremely high.
- Places with strong magnetic fields such as TVs or loudspeakers.
- Places exposed to vibration.
- Places where sand can easily enter the inside of the unit (beaches etc.).
- If the unit is used near radio tuners or TVs, noise and/or picture interference may result. If you experience these problems, move the unit away from such devices.
- It is not recommendable to put the MiniDisc into a rear pocket, as this may damage the product when sitting.



## Names of Controls and Indicators

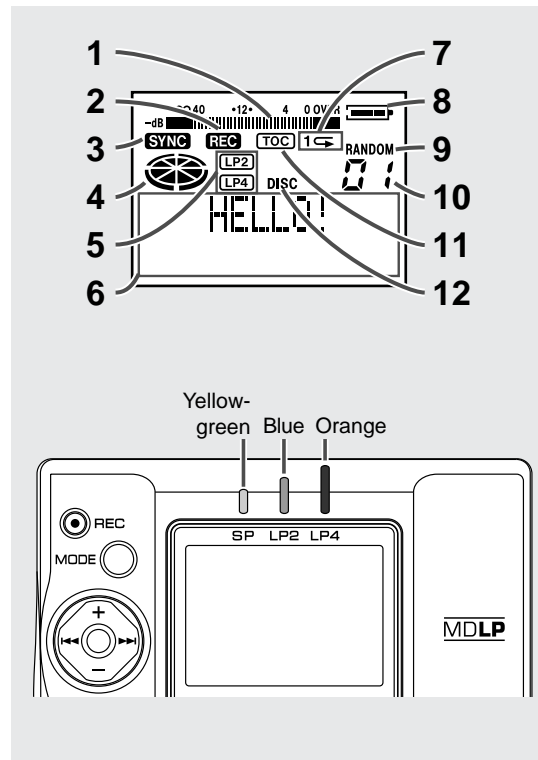


### Main unit

1. Record/Track Mark Button (20, 34)
2. Mode Button (20, 29, 32, 41)
3. Volume/Cursor/Fast Forward/Fast Reverse/Recording Level/Name Select Button (20, 26, 27, 30, 41-45)
4. Stop/Power Off/Hold Button (16, 22, 25, 41)
5. Open Lever (17)
6. Display/Character Select Button (39, 40, 43)
7. Edit/Auto Mark/Time Mark Button (34, 38, 43-50)
8. Play/Pause Button (20, 24)
9. Enter/Fast Play/Synchro Button (29, 43-50)
10. Bass/Delete Button (26, 44)
11. Rechargeable Battery Cover (12)
12. Handstrap Holder
13. Optical/Line Input Socket (18, 19)
14. Microphone Input Socket (36)
15. Remote Control/Earphones/Line Output Socket (24)



## Names of Controls and Indicators (continued)



### Main unit display panel

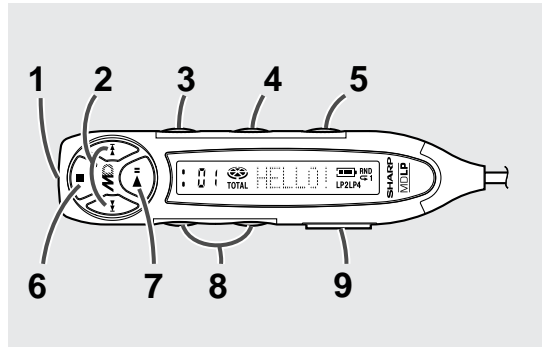
1. Level Meter
2. Record Indicator
3. Synchro Recording Indicator
4. Operation Indicator
5. Long-play/Recording Mode Indicator
6. Character/Time Information Indicator
7. Repeat Indicator
8. Battery Indicator
9. Random Indicator
10. Track Number Indicator
11. TOC Indicator
12. Disc Name Indicator

### 3-colour LED

Various modes are indicated with three colours of lights.

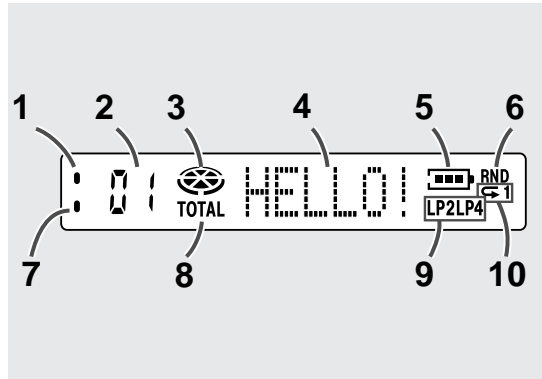
<b>Charging</b>	Lighting starting with yellow-green light.
<b>Refresh</b>	Extinguishing starting with orange light after all the lights are lit.
<b>Playback</b>	Flashing the colour of the activated playback mode.
<b>Recording</b>	Flashing the colour of the activated recording mode.
<b>Fast Forward</b>	Flashing starting with yellow-green light.
<b>Fast Reverse</b>	Flashing starting with orange light.
<b>Volume (+)</b>	Lighting starting with yellow-green light.
<b>Volume (-)</b>	Extinguishing instantly starting with orange light after all the lights are lit.
<b>TOC</b>	Reading: flashing at random.





### Remote control unit

1. Earphones Socket (24)
2. Fast Forward/Fast Reverse Button
3. Display Button
4. Play Mode Button (29)
5. Sound/Track Mark Button (26, 34)
6. Stop/Power Off Button (22, 25)
7. Play/Pause Button
8. Volume Button
9. Hold Switch (16)



### Remote control display panel

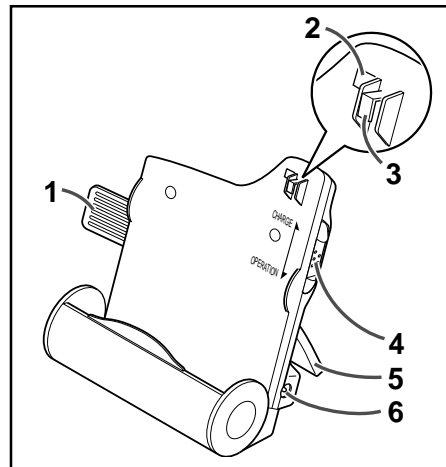
1. Record Indicator
2. Track Number Indicator
3. Operation Indicator
4. Character/Time Information Indicator
5. Battery Indicator
6. Random Indicator
7. Synchro Recording Indicator
8. Total Track Number Indicator
9. Long-play/Recording Mode Indicator
10. Repeat Indicator



## Battery Charger

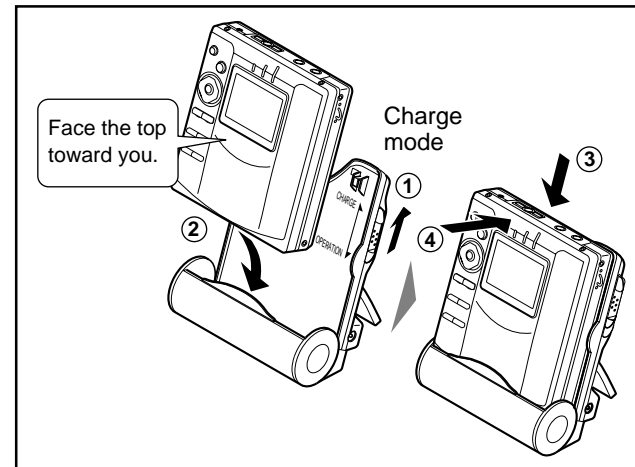
There are two different ways to use the battery charger one is to use it as a normal battery charger, the other is to use it with an AC adaptor by attaching the portable MD to the battery charger.

### Names



1. Remote Control Holder (11)  
(You can hang the remote control on it.)
2. Lock Detector
3. Hook For Fixing The Main Unit
4. Charge/Operation Switch (11)
5. Stand
6. AC Adaptor Connecting Socket (18, 19)

### Setting




#### Caution:

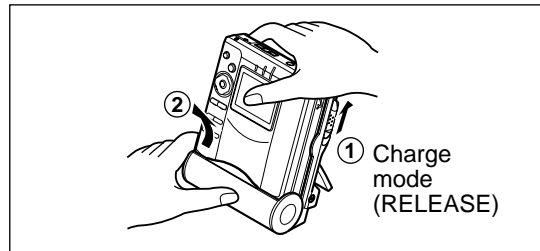
- Before setting the portable MD to the battery charger, make sure the battery charger is in charge mode (CHARGE). If you insert the portable MD by force whilst in operation mode (OPERATION), the hook for fixing the portable MD may break.
- Operating whilst in charge mode, "CHARGEmode" will appear and no operation is possible.



### How to use the Charge / Operation switch

	<p><b>For charging</b></p> <p>Move it to charge mode (see "Using with the Rechargeable Battery" page 12).</p>
	<p><b>For operations</b></p> <p>Move it to operation mode when playing back or recording (see "Using with the AC Adaptor" page 14).</p>

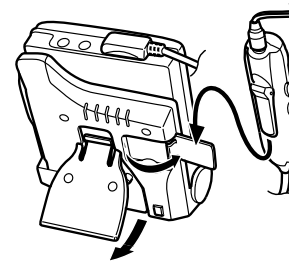
### Removing



Move the Charge / Operation switch to charge mode.

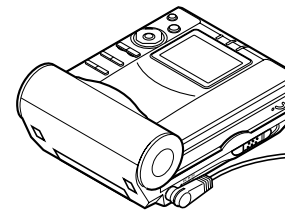
### Setting the battery charger and hanging the remote control.

When the remote control is not used, hang it on the holder for your convenience.

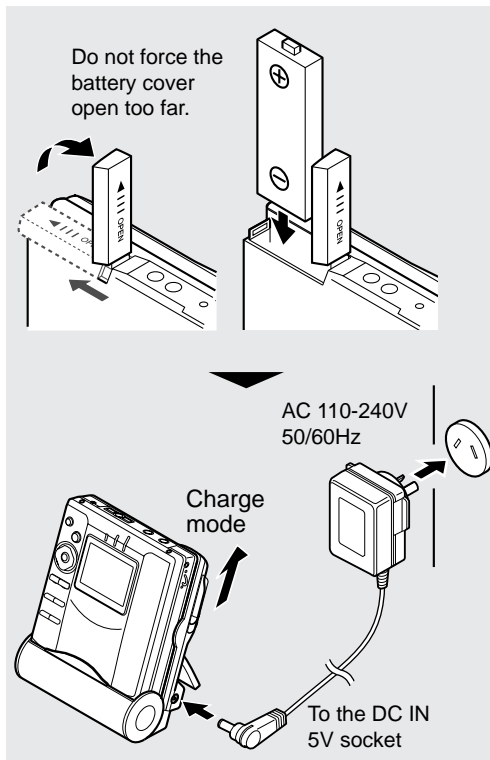


### For use with the AC adaptor.

When using the unit with AC adaptor, use it horizontally. Do not stand the unit.



## Using with the Rechargeable Battery



### Charging

When the rechargeable battery is used for the first time or when you want to use it after a long period of disuse, be sure to charge it fully.

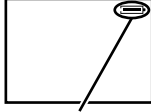
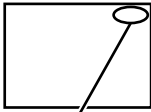

- 1** Insert the rechargeable battery.
- 2** Move the Charge/Operation switch to charge mode.
- 3** Place the portable MD into the battery charger and connect the AC adaptor.

- After the rechargeable battery is charged or used, it will get slightly warm. This is normal.
- When the portable MD is turned on or operating, the battery will not be charged.




### About the liquid crystal display (LCD)

The condition of the portable MD will be shown on the LCD when inserting it into the battery charger.

Display	Conditions
 Scrolling	<b>Charging.</b>
 Turns off	<b>The charging is complete.</b> When the portable MD is not inserted correctly to the battery charger, or Rechargeable terminal is dirty, it may not be possible to charge the battery. (Wipe the terminal by cotton swab.)
 REFRESH	<b>Refreshing.</b> The unit checks and, if necessary, discharge the rechargeable battery to recharge it automatically. (At this time battery indicator is flashing.)

### About charging time

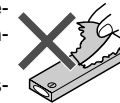
After about 3.5 hours have passed, “” will go out. The battery is charged up to 95% if it is completely discharged.

#### Notes:

- Charge the battery within the range of 5°C - 35°C (41°F - 95°F).
- The unit can be left in the charging state after it is completed.
- If the MiniDisc unit is not to be used for some time, remove the battery. (The battery drains gradually even when the power is turned off.)
- Carry the battery in the supplied case.

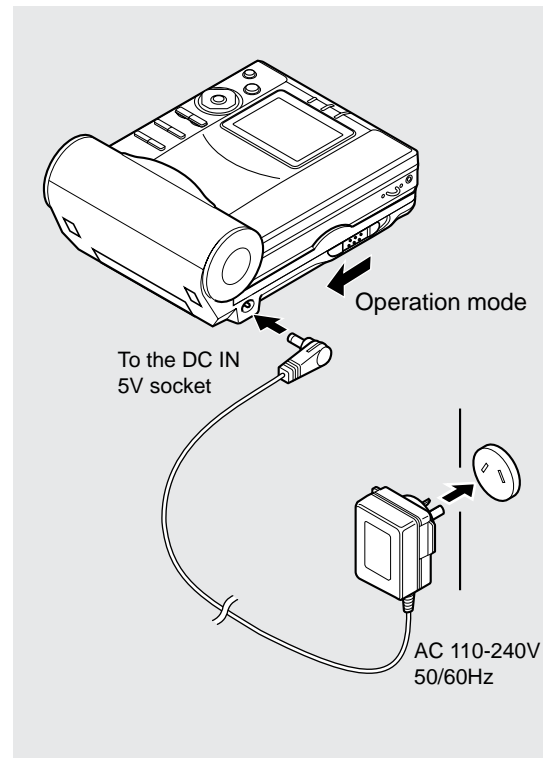
#### Caution:

- Use the specified battery AD-N55BT only. Do not charge a battery (nickel-cadmium, alkaline, etc.) other than that specified.
- Do not remove the outer cover of the rechargeable battery. It may cause heat generation, fire, or explosion.
- Do not dip the battery in water, do not dispose of it in a fire, and do not take it apart.
- If the rechargeable battery terminal is dirty, charging may not start. In such a case, wipe off the dirt with a dry cloth.
- Do not disassemble the battery.





## Using with the AC Adaptor



- 1** Place the portable MD to the battery charger.
- 2** Move the Charge/Operation switch to operation mode.
- 3** Plug the AC adaptor.

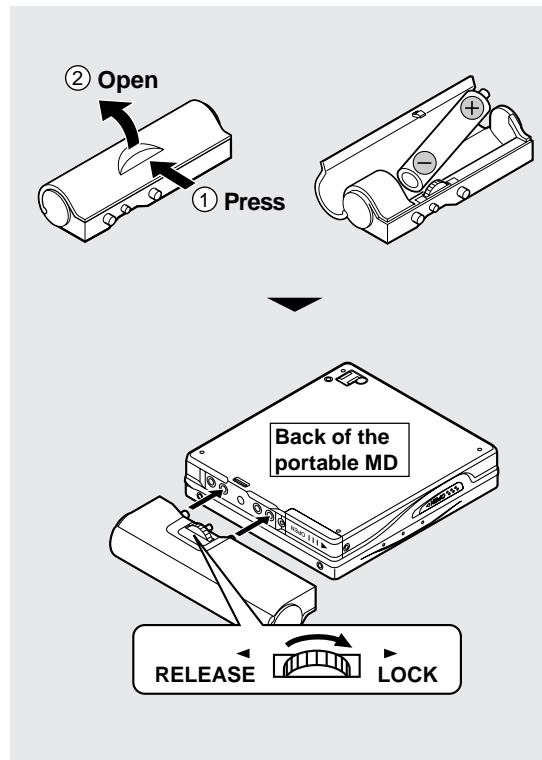
### Caution:

- If the Charge/Operation switch is not set to operation mode, no operation is possible.  
(See "How to use the Charge/Operation switch", page 11)
- When the unit is not in use for extended periods, remove the AC adaptor from the wall socket.
- Insert the plugs firmly.

### Note:

When power failure occurs whilst playing back using the AC adaptor, disconnect the adaptor from the wall socket. Otherwise, playback may start automatically when the power returns.

## Using with the Alkaline Battery



Use one commercially available alkaline battery (LR6, "AA" size).  
When using the alkaline batteries, make sure the rechargeable battery is inserted.

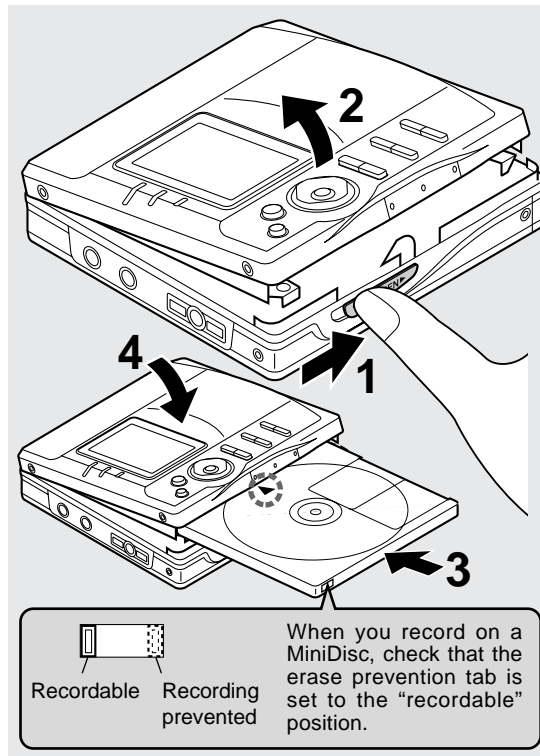
- 1 Open the case cover.
- 2 Insert a alkaline battery into the battery case.
- 3 Attach the battery case to the portable MD.

**Caution:**  
Do not use rechargeable batteries (nickel-cadmium battery etc.) in the battery case.





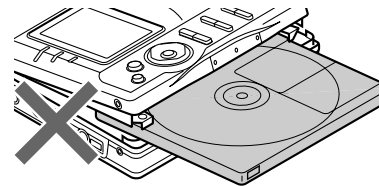
## Inserting a MiniDisc



- 1 Slide the OPEN lever to release the compartment door.
- 2 Lift it up.
- 3 Insert a MiniDisc as shown.
- 4 Close the compartment door.

### Notes:

- Do not place the MiniDisc under the holder.



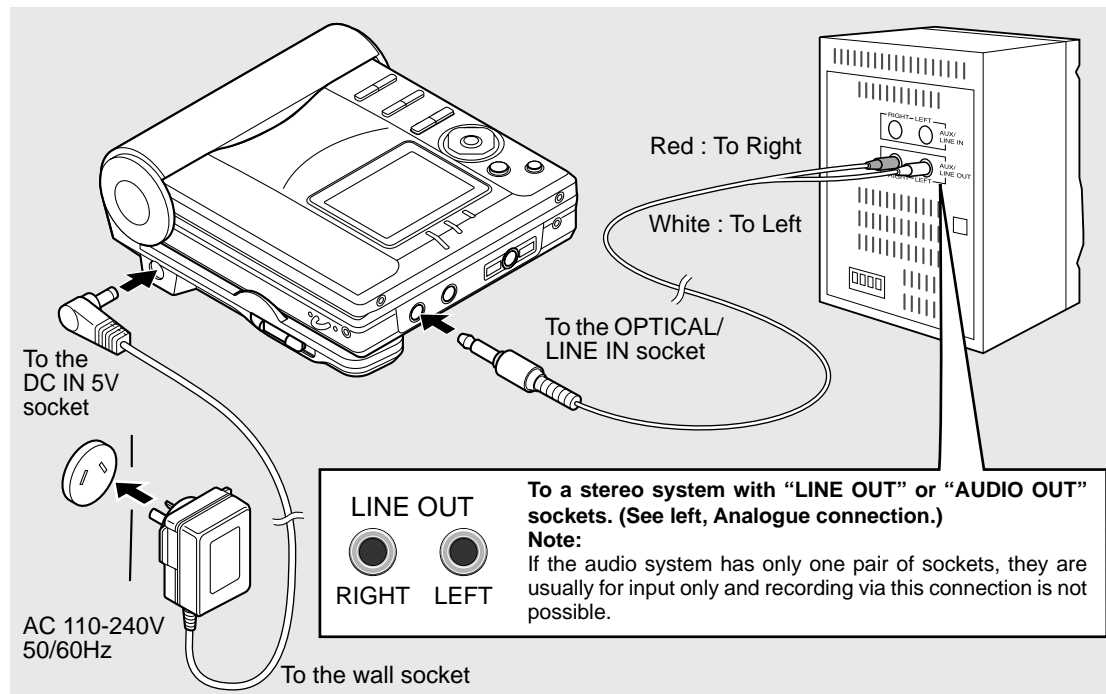
- If any resistance is felt, do not force the MiniDisc into the unit, as it may cause damage to the unit. If resistance is felt, remove the MiniDisc and reload it.
- The lid cannot be opened if "TOC" is displayed refer to the instruction on page 22.



## Connections

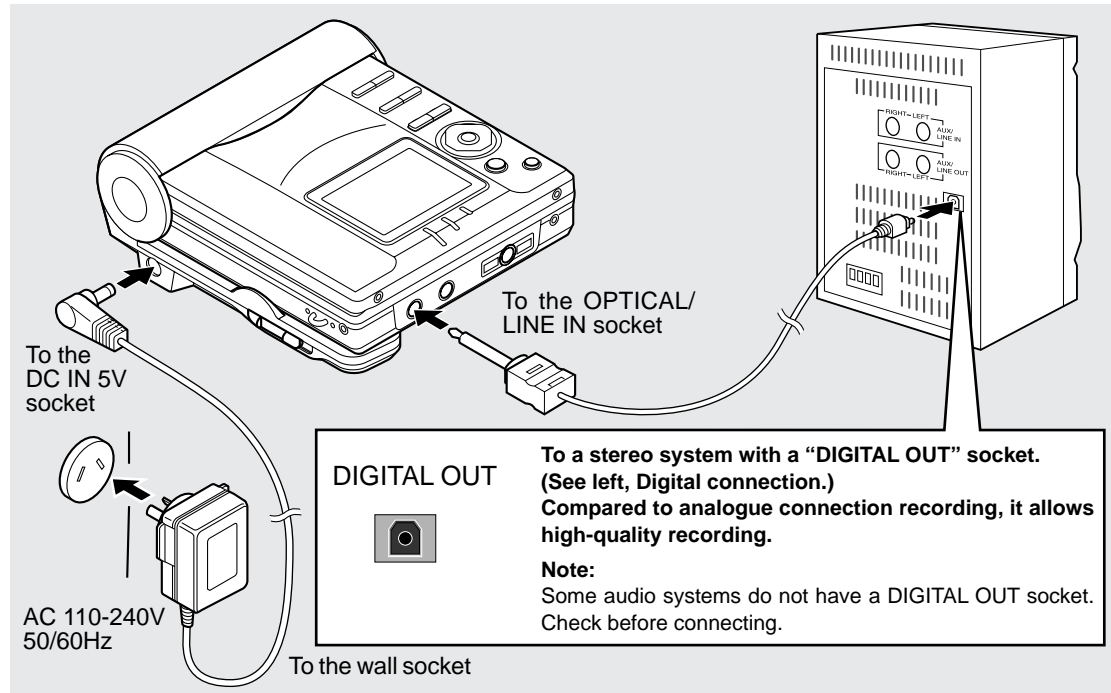
You can record your favorite CDs or tapes to an MD.

To connect to a stereo system with “LINE OUT” or “AUDIO OUT” sockets



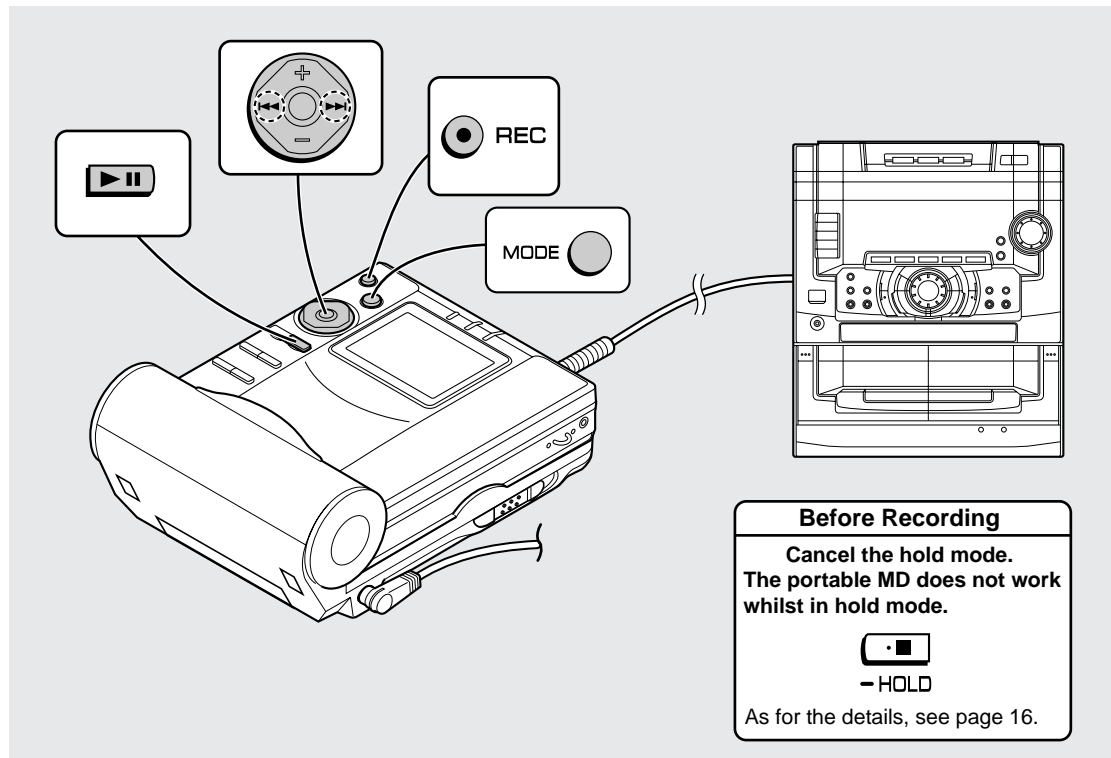


To connect to a stereo system with a "DIGITAL OUT" or "OPTICAL OUT" socket





## Recording

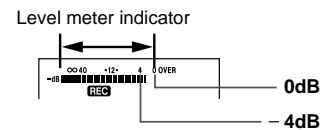




- 1 Press the REC button.**  
Record pause mode is entered.
- 2 Begin playback on the stereo system connected to this portable MD.**  
To enable the record level to be set.
- 3 Press the ◀◀ or ▶▶ button to adjust the recording level.**

#### Analogue recording

Adjust the recording level so that the maximum sound volume from the source makes the reading swing somewhere between -4 dB and 0 dB.



#### Digital recording

You can adjust the level in 1 dB increments within the range of +12 - -12dB.

D.L 0dB +12 - -12dB

Once you adjust the digital recording level, the setting remains even after the recording stops. (For cancellation instructions, see page 41.)

- 4 Press the PAUSE button on the stereo system to enter the playback pause mode at the point you wish to start recording.**  
Here you can select the track to be recorded.

- 5 Press the MODE button repeatedly to select recording mode (page 32).**

SP/STEREO (Stereo recording)

LP2 REC (2 times long recording)

LP4 REC (4 times long recording)

SP/MONO (Monaural recording)

- 6 Press the ▶▶ button to start the MiniDisc unit recording.**

- 7 Begin playback on the stereo system, the output will be recorded.**

#### Notes:

- When recording, it is recommended to use the AC adaptor and also install the charged battery. Should the power failure occur, the power source would be automatically switched to the rechargeable battery.
- Changing the volume level whilst recording does not affect the recording.
- You cannot adjust the bass level whilst recording.



## Recording (continued)

### To interrupt recording

Press the ►|| button.

- To resume recording, press the ►|| button again.
- The track number will be increased by one each time the recording is interrupted.

### To stop recording

Press the ●■ / :OFF button.

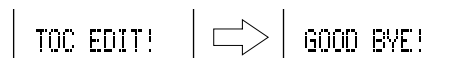
- When recording stops, "TOC" appears (Table Of Contents). Whilst "TOC" appears the MiniDisc recorded contents have not yet been updated.
- To prevent the new recording from being lost it is not possible to remove the MiniDisc whilst "TOC" is displayed.



### To update the recorded contents of the MiniDisc

Press the ●■ / :OFF button whilst in the stop mode.

- The power turns off after recorded contents have been updated on the MiniDisc.



### About the TOC

After any recording or editing function "TOC" (Table Of Contents) is displayed. To finalise the recording or editing function, press the ●■ / :OFF button. During this process "TOC" will flash and "TOC EDIT!" will be displayed.

During any recording or editing function the MiniDisc unit lid is locked, the MiniDisc cannot be removed until the process is finalised.

### Warning:

If the power is removed (Battery/AC adaptor) whilst "TOC" is displayed the MiniDisc unit lid will remain locked until the battery/main power is restored and the unit is turned on. Your new recordings or edited changes will be lost and your MiniDisc may become unusable.

### Caution:

Whilst "TOC" or "TOC EDIT!" is displayed, follow the instructions below.

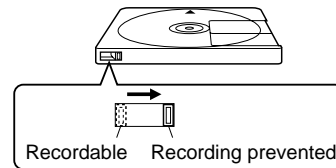
- Do not jerk or bump the unit.
  - Do not unplug the AC adaptor.
  - Do not remove the rechargeable battery or an alkaline battery.
  - Do not subject the unit to shock.
- Otherwise, tracks may not be recorded properly.



### To prevent recorded MiniDiscs from being erased accidentally

Slide the accidental erase prevention tab, located on the side of the MiniDisc, in the direction indicated by the arrow.

The MiniDisc will then be protected against accidental erasure.

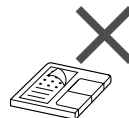


To add a recording to such a MiniDisc, slide the accidental erase prevention tab back to its original position.

### Helpful tip when attaching a label

When attaching a label to an MiniDisc cartridge, be sure to note the following. If the label is not attached properly, the MiniDisc may jam inside the unit and it may not be possible to remove it.

- If the label peels off or partially lifts away, replace it with a new one.
- Do not put a new label on top of an existing one.
- Attach the label only in the specified location.

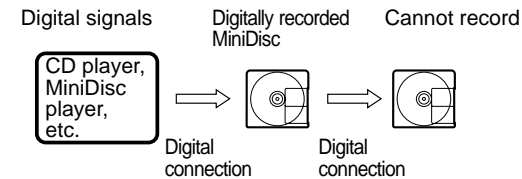


### About sampling rate converter

This portable MD incorporates a sampling rate converter meaning it can record from digital radios or DAT tape recorders.

### Note for digital recording

You can not copy a MiniDisc that you recorded from digital inputs to another MiniDisc or DAT. It is prevented by the SCMS (Serial Copy Management System). Recording from analogue inputs is not affected.



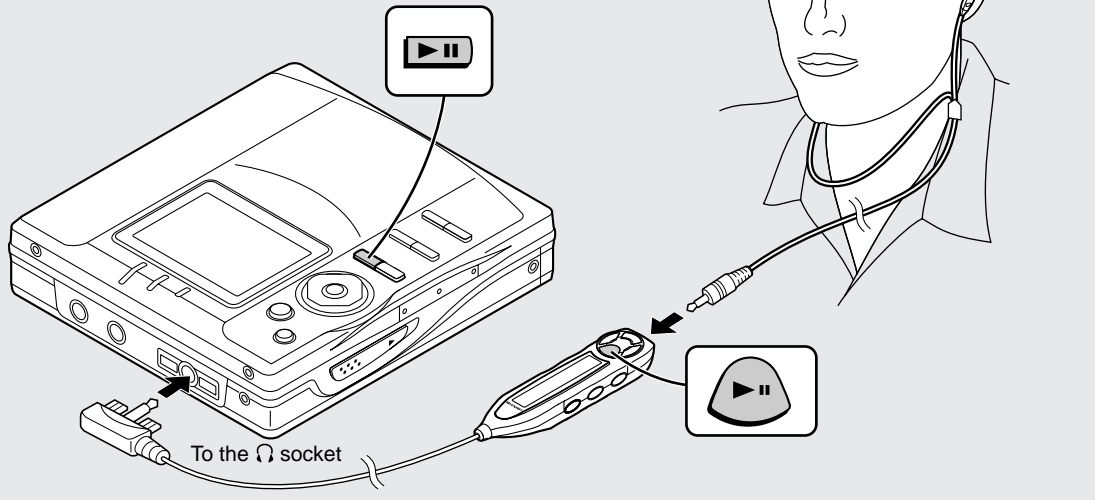


# Playback

**Before Playing back**  
**Cancel the hold mode.**  
**The portable MD does not work whilst in hold mode.**

Main unit	Remote control unit
- HOLD	→ Release

As for the details, see page 16.







**1** Insert the earphones plug firmly into the earphones socket on the remote control unit.

**2** Plug the remote control into the  socket on the unit.


**3** Insert a MiniDisc (page 17).

**4** Press the  button.

Playback starts automatically with a playback only MiniDisc or a MiniDisc which is protected against accidental erasure (Auto-play function).

#### To interrupt playback

Press the  button.



- To resume playback, press the  button again.

#### To stop playback

Press the  /  :OFF button.

- If the unit is not operated for at least 2 minutes whilst in the stop mode, the power will shut off automatically.

#### To turn off the power

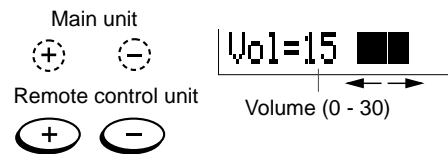
Press the  /  :OFF button whilst in the stop mode.



## Playback (continued)

### Volume control

Press the VOL+ button to increase the volume and the press the VOL– button to decrease the volume.



### Bass control

Each time the BASS button is pressed (Remote control: the SOUND button is pressed), the tone will be switched as follows.

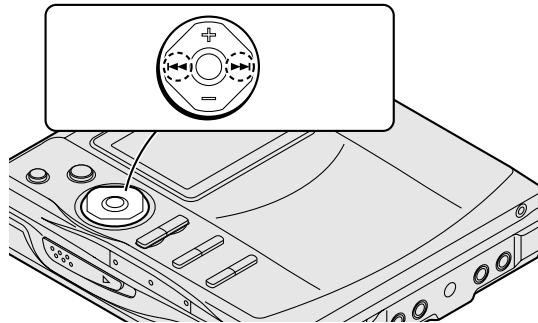


BASS 1	Emphasised slightly
BASS 2	Emphasised more
BASS 3	Emphasised fully
BASS OFF	Cancelled

### Notes:

- If power failure occurs whilst playing a disc using the AC adaptor, disconnect it from the wall socket. Otherwise, playback may start automatically when electricity resumes.
- If you connect the AC adaptor without installing the rechargeable battery, playback may start automatically. Be sure to turn off the power.
- Reduce the volume before starting to play. MiniDiscs, compared to ordinary cassette tapes, have very little noise. If the volume is adjusted according to your usual expectations of noise, high volume may damage your hearing.
- The sound escaping from your earphones may annoy people around you. In particularly crowded places (such as on trains or buses), reduce the volume.

## Advanced Playback



### To locate the desired portion

#### For audible fast forward:

Press and hold down the ►► button during playback.

#### For audible fast reverse:

Press and hold down the ◀◀ button during playback.

- Normal playback will resume when the ◀◀ or ►► button is released.
- When the end of the last track is reached during fast forward, the unit will enter the pause mode. When the beginning of the first track is reached during fast reverse, the unit will enter the playback mode.

### To locate the beginning of a track

#### To move to the beginning of the next track:

Press the ►► button during playback.

#### To restart the track being played:

Press the ◀◀ button during playback.

#### To locate the next track:

Press the ►► button whilst the unit is stopped.

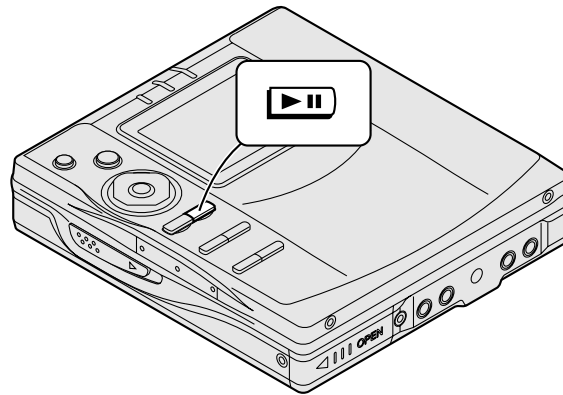
#### To locate the previous track:

Press the ◀◀ button whilst the unit is stopped.

- To skip a number of tracks at one time, press the ◀◀ or ►► button repeatedly until the desired track number is shown.
- When you press the ►► button, playback starts from the beginning of the track.



## Advanced playback (continued)



### Intro play

You can listen to each track for approximately 5 seconds.

When stopped or pause, press the ►|| button for 2 seconds or more.

INTRO PLAY

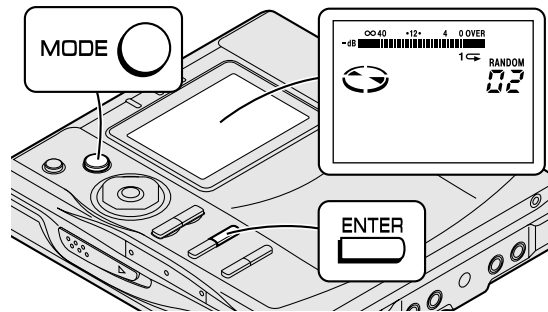
When the playback mode is set as random playback, random repeat playback, or one-track repeat playback, the intro scan is not possible.

In this case, the playback is started in the normal mode.

The duration that “INTRO PLAY” is displayed is not fixed.

### To return to normal playback

Press the ►|| button.



### Random play or repeat play

During playback, press the MODE button repeatedly to select the playback mode.

RANDOM	Random play
↺ RANDOM	Repeat play of tracks in random order
↺	Repeat play of all of the tracks
1↺	Repeat play of a single track
No display	Normal playback

### To play at double speed (Mono recording only)

Press the ENTER button whilst a MiniDisc recorded in the monaural long-play mode is being played.

#### FAST PLAY

- If a track recorded in the stereo mode is reached during fast playback, the fast playback mode will be cancelled.
- Depending on the contents recorded on a MiniDisc, it may be difficult to hear them.

### To interrupt fast playback

Press the ►|| button during playback. When the ►|| button is pressed again, the unit will resume fast playback.

### To return to normal playback

Press the ENTER button.

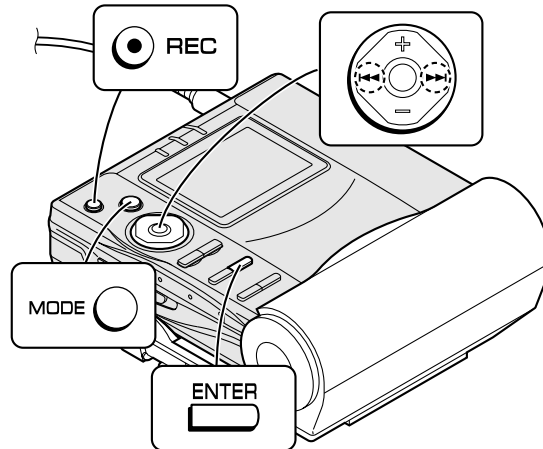
### Notes:

- If the playback mode is selected whilst stopped, press the ►|| button to start playback.
- When "TOC" is displayed, random play or repeat play is impossible.
- In random play the unit will select and play tracks automatically. (You cannot select the order of the tracks.) After all of the tracks have been played once each in random order, the unit will stop automatically.
- During random, random repeat, or single track repeat play, you can forward or reverse the MiniDisc only within the track being played.
- During random play, the unit cannot find the beginning of any track which has been played.
- Repeat play lasts until you stop the unit.

## Advanced Recording

### Playback sound-actuated recording (Synchronised recording)

Recording automatically starts or pauses by detecting sound from the stereo system (Synchronised recording).



- 1 Press the **REC** button.
- 2 Begin playback on the stereo system connected to this portable MD.

- 3 Press the **◀◀** or **▶▶** button to adjust the recording level.
- 4 Press the **PAUSE** button on the stereo system to enter the playback pause mode. Select the starting point for your recording and press the PAUSE button.
- 5 Press the **MODE** button repeatedly to select recording mode (page 32).
- 6 Press the **ENTER** button (Synchro Button).
  - “**SYNC**” will be displayed.
  - To cancel the operation, press the **•■/ :OFF** button.
- 7 Begin playback on the stereo system. Recording will begin automatically.

#### To interrupt recording:

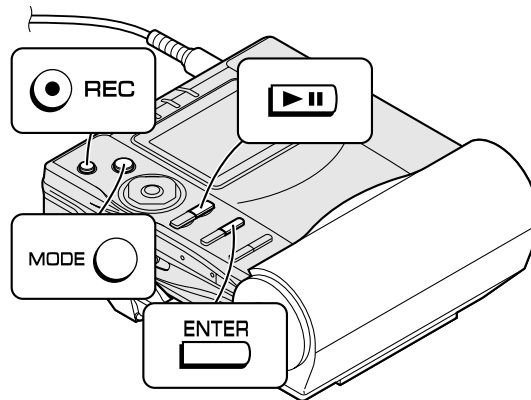
- When the stereo system is stopped, the unit will enter the synchro recording pause mode. When playback is resumed, the recording will be resumed.
- If a silence lasts for 3 seconds or more, the recording will be paused (Pause function does not work for approximately 10 seconds after a recording starts).
- When the unit receives sound again, recording automatically starts.
- A new track number is created when the recording resumes.



### To start recording from the middle of a track

You can erase a portion of a track and make a new recording.

All of the tracks that follow the newly recorded track will be erased.



**1** During playback, press the ►|| button at the point where you want to begin recording.

**2** Press the REC button.

```
ERASE OK?  
OK + ENTER
```

To cancel the operation, press the ■ / :OFF button.

**3** Press the ENTER button.

All of the tracks and track names will be erased, following the point where the playback is paused.

**4** Press the MODE button repeatedly to select recording mode (page 32).

**5** Press the ►|| button.  
Recording will start.

**Note:**

To keep a track after the point you want to make a new recording, move the track and then make recording after that point.

(See "Editing a Recorded MiniDisc", page 50.)



## Advanced Recording (continued)

### Long-play recording

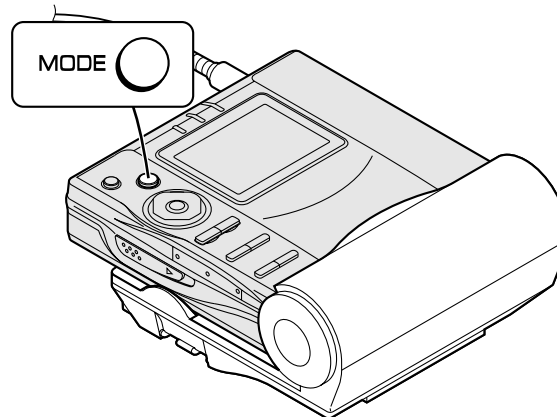
#### 2 times and 4 times long recording

Double or quadruple time of stereo recording is possible.

#### Monaural recording

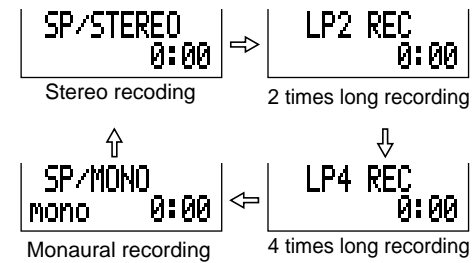
In monaural, you can record twice as long as the stereo recording (SP/STEREO).

A track recorded in monaural can be played back in double speed, see page 29.



### 1 When a recording is paused, press the MODE button repeatedly to select the recording mode.

Each time the button is pressed, the display will change as follows:



### 2 Start recording.

The recording mode remains unchanged until it is changed.





#### Notes:

- Tracks can be recorded in stereo recording mode, 2 times long recording mode, and 4 times long recording mode on one MiniDisc.
- In monaural recording, the sound on the right and left channels is mixed even if the input source is in stereo. Although you can hear the stereo sound from the ear-phones, the recorded sound is monaural.
- Tracks recorded in 2 times long recording and 4 times long recording modes cannot be played with the unit that does not support these modes. On such a unit, "LP" is displayed at the beginning of the track and no sound is heard. (The operation and the display may vary depending on the unit.)
- Tracks recorded in monaural cannot be played if equipment does not support the monaural playback.

#### About the recording mode

You can select the recording mode from stereo recording, 2 times long recording, 4 times long recording, and monaural recording. Recordable time varies depending on the recording mode.

If the tracks are recorded on 80-minute MiniDisc, you can record them in the following 4 modes:

Indication	Recording mode	Recording time
SP/STEREO	Stereo	Max. 80 min.
LP2 REC	2 times long (stereo)	Max. 160 min.
LP4 REC	4 times long (stereo)	Max. 320 min.
SP/MONO	Monaural	Max. 160 min.

#### Caution for 4 times long recording (LP4)

Special compressing method allows the 4 times long recording to realize long-time stereo recording. Therefore, some noise is recorded occasionally.

If sound quality is the main requirement, stereo recording or 2 times long recording is recommended.

#### About ATRAC

The ATRAC (Adaptive TRansform Acoustic Coding) system compresses the sound data into 1/5 by cutting out the inaudible sound. Since the sound is selected based on psychoacoustics masking, the sound quality is not impaired. This unit is equipped with the ATRAC3 compressing system that can reduce the sound data to 1/10 or 1/20 of its original size.

By employing this system, 2 times and 4 times long recording is enabled in stereo mode.



## Advanced Recording (continued)

### To create your own track numbers

You can create your own track numbers at any point.

**Whilst recording, press the REC button at the point where you want to create track numbers.**

The track number will be increased by one.

- One track number will be created every time the REC button is pressed.
- The SOUND button on the remote control can also be used to create track numbers.

### Numbering restriction

If you try to number more than 10 tracks in certain amount of time, "SORRY" will be displayed and the operation will be disabled.

In that case, wait until the next operation can be resumed.

In stereo recording	Within 40 seconds
In 2 times long recording	Within 80 seconds
In 4 times long recording	Within 160 seconds
In monaural recording	Within 80 seconds

### Recording tracks as a single track

You can record several pieces of music as a single track by disabling the auto marker function.

When a recording is paused or whilst recording...

**Press the EDIT button.**



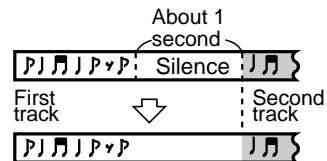
#### Note:

When making digital recordings using a CD player or a MiniDisc player, track numbers will be created automatically regardless of the setting of the auto marker function.

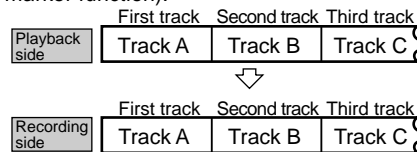


### About track numbers

1. Track numbers are created automatically during recording via the analogue connection when a silence of 1 second or more is detected (Auto marker function). A series of tracks can be recorded as one by disabling the auto marker function see page 34.



2. When recording from a CD or a MiniDisc using the digital connection, track numbers will be created at the same points as on the CD or MiniDisc (Synchro marker function).

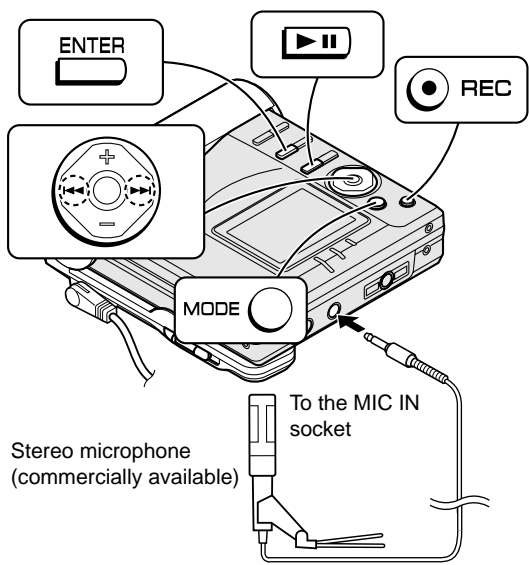


- Track numbers may not be created in proper places, depending on the source to be recorded from, such as signals with noise.
- The track numbers on the playback side may not match the track numbers recorded on the MiniDisc.

- When recording, if a programmed playback is performed by the source or playback is performed by selecting tracks manually, the MiniDisc track numbers may not be the same as on the source.
- Track numbers may not be created properly, depending on the connected stereo system.

## Recording from a Microphone

### To record from a microphone



- 1** Connect a stereo microphone to the MIC IN socket.
- 2** Insert a recordable MiniDisc (page 17).

- 3** Press the REC button.
- 4** Press the ◀◀ or ▶▶ button to adjust the recording level.
 

Level meter

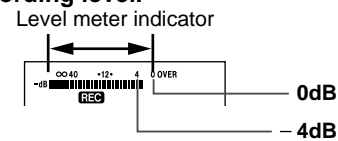
Adjust the recording level so that the maximum sound volume from the source makes the reading swing somewhere between -4 dB and 0 dB.
- 5** Press the MODE button repeatedly to select recording mode (page 32).
- 6** Press the ▶|| button. Recording will start.

- To interrupt a recording**  
Press the ▶|| button whilst recording. To resume recording, press the ▶|| button again. The track number will be increased by one each time you interrupt a recording.
- To stop recording**  
Press the ●■ / :OFF button.
- To write recorded contents on the MiniDisc**  
Press the ●■ / :OFF button whilst in the stop mode.



### Sound-actuated recording (Mic Synchronised recording)

- 1 Press the REC button.
- 2 Press the ◀◀ or ▶▶ button to adjust the recording level.



- 3 Press the MODE button repeatedly to select recording mode (page 32).

- 4 Press the ENTER button to select the recording sensitivity.

MIC SYNC H : Recording starts when the unit detects -24 dB or more  
(The unit can start recording from quiet sounds).

MIC SYNC L : Recording starts when the unit detects -12 dB or more.

- 5 When a sound, such as person speaking, is picked up by the microphone, recording will begin automatically.

### About pause function

The unit automatically pauses when the microphone does not pick up any sound for 3 seconds or more. (Pause function does not work for approximately 10 seconds after a recording starts.) When the microphone picks up sound again, recording starts automatically.

### Notes:

- Whilst making a mic recording, do not connect anything to the OPTICAL/LINE IN socket on the portable MD.
- To use a microphone, be sure it is a plug-in-power type microphone.
  - When a plug-in-power type microphone is plugged in, the portable MD will provide power for the microphone's operation.
  - If a different type of microphone is plugged in, it may not operate properly or it may cause the unit to malfunction.
- Insert the plug firmly. If you don't, the recording will not be made properly.
- Use a microphone with a 3.5 mm (1/8") diameter stereo mini plug.
- If the unit starts recording too often from low unwanted noises, set the microphone input to "MIC SYNC L".
- Recording sensitivity can be changed whilst recording.



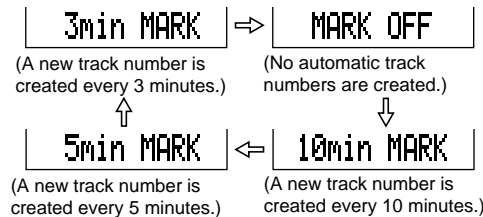
## Recording from a Microphone (continued)

### Track intervals

When recording from the microphone, track numbers will be created automatically at regular intervals (default setting: approximately every 5 minutes). During a mic synchro recording, the unit pauses when a silence lasts for 3 seconds or more, and creates a track number.

### Changing intervals between tracks

**1** When a recording is paused or whilst recording, press the EDIT button repeatedly.



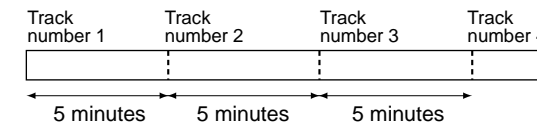
The interval between marks may vary slightly compared with the actual recording time.

**2** Track numbers will be created automatically at regular intervals.

Example: Set to "5 minutes".

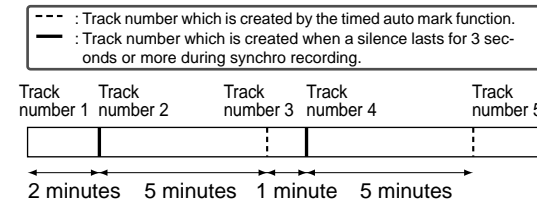
### During a mic manual recording

Timed auto marks will be created every 5 minutes.



### During a mic synchro recording

If a silence lasts for 3 seconds or more, a timed auto mark will be created 5 minutes after the previous mark is created.



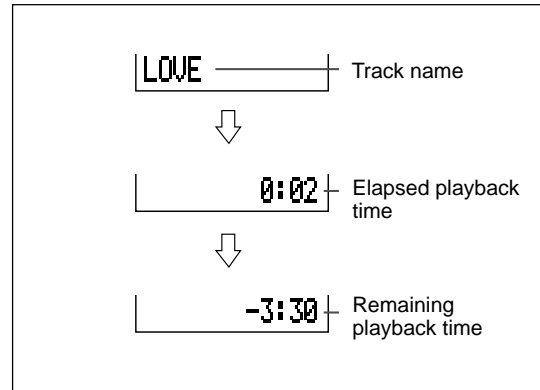
### Creating track numbers manually

Press the REC button whilst recording.

## Checking Displays

### To check the elapsed time and remaining time of the track

**During playback, press the DISP button.**  
Each time the button is pressed, the display will change as follows:

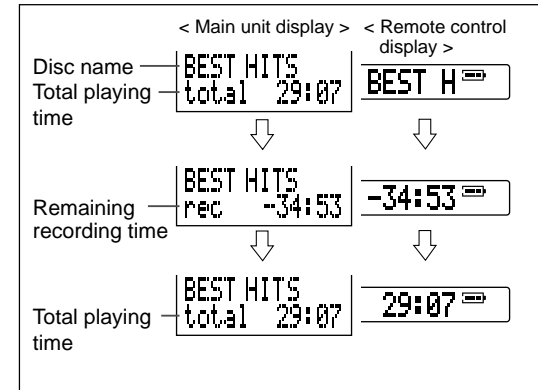


#### Notes:

- If the disc name or the track name was not originally recorded on the MiniDisc, "NO NAME" will be displayed.
- Remaining recording time will not be displayed with a playback only MiniDisc.
- Elapsed playback time and remaining playback time may be different from the actual time.

### To check the remaining recording time and the total playing time

**Whilst in the stop mode, press the DISP button.**  
Each time the button is pressed, the display will change as follows:



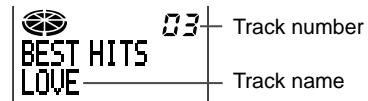
- Remaining time of recording varies depending on the set recording mode.
- If the remaining time of recording is over 100 minutes, the last digit of the seconds is not displayed on the remote control.



## Checking Displays (continued)

### To display the playing time of an individual track

- 1 Whilst in the stop mode, press the **◀◀** or **▶▶** button to display the track number and track name.



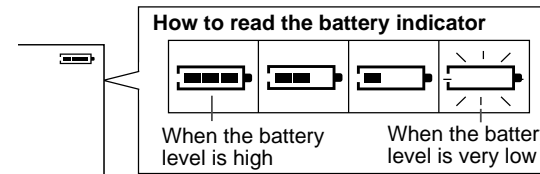
- 2 Press the **DISP** button to display the playing time for that track.



Each time the **◀◀** or **▶▶** button is pressed, the playing time of the previous or next track will be displayed.

### Checking the remaining amount of battery level

The remaining amount of battery level is shown by the battery indicator ( ) during operation.



- When the battery is completely discharged, the battery indicator will flash. Recharge the battery or replace the alkaline battery with a new one.
- When the battery has run completely out, "BATT EMPTY (LoBATT)" will appear. Then, the power will be disconnected automatically.

#### Notes:

- If you use the battery which you stopped charging halfway, "" may appear. It does not mean that the battery is completely charged.
- The battery indicator will not correctly display the remaining capacity for approximately 20 seconds after the power has been turned on.
- When the AC adaptor or a separately available car adaptor is used, the battery indicator will not be shown.
- The number of bars shown in the battery indicator may increase or decrease, depending on the operation being performed. This is normal.



## Changing Default Settings

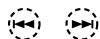
Whilst in the stop mode ...

- 1 With a MiniDisc inserted, press the **MODE** button for 2 seconds or more. "SET UP" will appear.

MODE 

When you release the button, "BEEP ON" or "BEEP OFF" will appear.

- 2 Press the **⏮** or **⏭** button to display the menu.



- 3 Press the **MODE** button to switch items.

MODE 

- 4 Press the **•■ / :OFF** button.

MENU	SETTING ITEM	
BEEP ON Confirmation sound	BEEP ON* BEEP OFF	Beep Silent
A-PLAY ON Auto play	A-PLAY ON* A-PLAY OFF	Setting Cancelled
AUTO Psave Auto power save	AUTO Psave* Psave OFF	Setting Cancelled
D.L MODE 1 Digital recording level	D.L MODE 1* D.L MODE 2	Setting keep Cancelled
LIGHT NORM 3-colour LED illumination Backlight on the remote control Display on the remote control	LIGHT NORM* LIGHT ALL LIGHT OPER LIGHT OFF	See next page.

(\*) indicates default setting.



## Changing Default Settings (continued)

### Beep sound

You can eliminate the confirmation sound that beeps when you press a button.

### Auto play

You can make the unit not play automatically when you insert a playback-only MiniDisc or an accidental erasure protected MiniDisc.

### Auto power save

When the unit is used in a place exposed to much vibration, sound skipping can be decreased by cancelling the auto power save function. (Battery will drain faster.)

### Digital recording level

#### “D.L MODE 1”

The digital recording level you set will be kept even after canceling recording.

#### “D.L MODE 2”

Every time you cancel recording, the level will return to [ D.L 0dB ].

#### What is auto power save function?

During playback, maximum 40 seconds (in stereo) of musical information is stored. Auto power save function automatically adjusts the storage time between 5 and 40 seconds to reduce the power consumption. If this function is cancelled, the storage time cannot be adjusted. (It cannot be adjusted even if it is operated on the battery charger.) The storage time varies depending on the playback mode.

### Operation indicator, backlight on the remote control and display on the remote control

The illuminating pattern of the 3-colour LED and the remote control can be changed.

#### LIGHT NORM:

- 3-colour LED      Indication lamp is flashing.
- Backlight on the remote control      Lit for approx. 10 seconds when operated.
- Display on the remote control      Indicated.

#### LIGHT ALL:

- 3-colour LED      Indication lamp is lit.
- Backlight on the remote control      Lit for approx. 10 seconds when operated. (Lit when operated on the battery charger.)
- Display on the remote control      Indicated.

#### LIGHT OPER:

- 3-colour LED      Lit for approx. 10 seconds when operated during playback or recording.
- Backlight on the remote control      Lit for approx. 10 seconds when operated.
- Display on the remote control      Indicated for approx. 10 seconds when operated.

#### LIGHT OFF:

- 3-colour LED      The light is not turned on.
- Backlight on the remote control      The light is not turned on.
- Display on the remote control      Indicated for approx. 10 seconds when operated.





# Titling a MiniDisc



## Creating disc and track names


Load a MiniDisc to be named. A Playback-only or recording-prevented MiniDisc cannot be edited.

**1**

Disc name	Track name
Whilst in the pause mode with "DISC" displayed, press the EDIT button repeatedly to select "DISC NAME".	Whilst in the pause mode, press the EDIT button repeatedly to select "TRACK NAME".



  



If "DISC" is not displayed, you cannot select "DISC NAME."  
"DISC" is displayed when the  / OFF is pressed once.

---



**2 Press the ENTER button.**

Cursor

- The unit will enter the character input mode.
- To cancel the operation, press the  / OFF button.

**3** Press the DISP button repeatedly to select the type of characters.

ABC  
(Capital letters)

abc  
(Lower-case letters)

123  
(Numbers and symbols)



The first 3 characters in the group of the selected characters will be displayed for about 1 second.

**4** Press the  or  button repeatedly to select the letter.





→


**5** Press the ENTER button to enter it.

Position where the next letter will be entered

**6** To enter more letters, repeat steps 3 - 5.

Continued to the next page 

## Titling a MiniDisc (continued)

- 7** When the name has been completely entered, press the **EDIT** button.



- 8** “TOC” will be displayed. To write the updated contents to the MiniDisc press the **•■ / :OFF** button.

You cannot remove the MiniDisc whilst “TOC” is displayed. “TOC” will not disappear until the recorded contents have been updated.

**Note:**

One disc name and up to 255 track names can be created per disc (a maximum of 100 characters for the disc and each track name and a total of 1,700 characters can be entered. However, if any tracks are recorded in the 2 times or 4 times long recording mode, the number of characters to be entered is decreased, since the information of the recording mode is stored by the track.).

### To erase a character

Press the VOL + or VOL – button to move the cursor to the character you want to erase, and then press the BASS button.



### To enter a space

Press the VOL + button to move the cursor to the right.



### Characters (symbols)

Capital letters

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
P	Q	R	S	T	U	V	W	X	Y	Z	.	,	/	□

Lower-case letters

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
p	q	r	s	t	u	v	w	x	y	z	.	,	/	□

Numbers and symbols

1	2	3	4	5	6	7	8	9	0	!	"	#	\$	%
&	'	(	)	*	+	,	-	.	/	:	;	<	=	>
?	@	_	`	□										

□ : indicates a space.



### To add characters

**1** Put the unit in the character input mode.  
(Perform steps 1 - 2 on page 43.)

**2** Press the VOL + or VOL – button to move the cursor to the right of the character, where you want to add a new character.



**3** Select the character to add.  
(Perform steps 3 - 4 on page 43.)



**4** Press the ENTER button.



**5** Press the EDIT button.



**6** "TOC" will be displayed. To write the updated contents to the MiniDisc press the **• ■ / :OFF** button.

You cannot remove the MiniDisc whilst "TOC" is displayed. "TOC" will not disappear until the recorded contents have been updated.



## Titling a MiniDisc (continued)

### Stamping titles from another MiniDisc

#### Before stamping

When there are 2 MiniDiscs on which the same tracks are recorded, you can transfer the character information (disc and track names) of the Master MiniDisc to another MiniDisc (for stamping).

#### 1. What is a master MiniDisc?

A recordable MiniDisc that contains tracks and character information.  
(You can not transfer the information from a playback only MiniDisc.)



#### 2. What is a MiniDisc for stamping?

A MiniDisc that contains the same tracks in the same order as the master MiniDisc.  
(Make sure that the total number of tracks of the master MiniDisc and the one for stamping are the same.)



#### Master MiniDisc operation

#### 1 Insert a Master MiniDisc.



Do not mistake the Master MiniDisc for the target one.

#### 2 Whilst in the stop mode, press the EDIT button repeatedly to select "NAME STAMP".




NAME STAMP  
OK + ENTER

#### 3 Press the ENTER button.

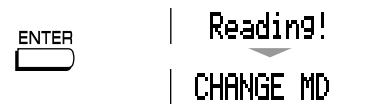


READ OK?  
OK + ENTER

To cancel the operation, press the  :OFF button.



**4** Press the ENTER button.



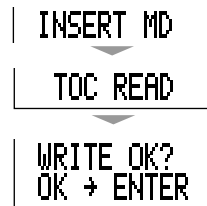
**5** When the unit displays “CHANGE MD”, remove the master MiniDisc.

Remove it without turning off the power. Or, the operation will be cancelled.

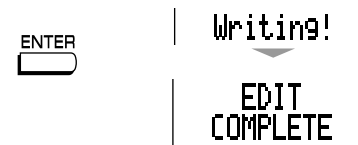


**Operation of the MiniDisc for stamping**

**6** Load a MiniDisc for stamping.



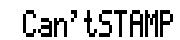
**7** Press the ENTER button.



The unit will finish recording the character information and enter the stop mode.

**Note:**

If the total number of tracks on the master MiniDisc does not match that on the MiniDisc for stamping, the unit will display “Can't STAMP” and turn off the power.




If this happens, adjust the total number of tracks on the newly recorded MiniDisc using the edit operation.



## Editing a Recorded MiniDisc

### To erase tracks one at a time

**1** Start playing the track to be erased, and press the  button.

**2** Press the EDIT button repeatedly to select “ERASE”.




ERASE 03  
OK → ENTER

**3** Press the ENTER button.



ERASE 03?  
OK → ENTER

To cancel the operation, press the  / :OFF button.

**4** Press the ENTER button again.



The track will be erased.

**5** To erase other tracks, repeat steps 1 - 4.

### To erase all of the tracks at once

**1** Whilst in the stop mode, press the EDIT button repeatedly to select “ALL ERASE”.




ALL ERASE  
OK → ENTER

**2** Press the ENTER button.



ERASE OK?  
OK → ENTER

To cancel the operation, press the  / :OFF button.

**3** Press the ENTER button again.



EDIT  
COMPLETE

All of the tracks will be erased.

**Caution:**

Once a track has been erased, it cannot be recovered. Check the track number before erasing it.





### To divide a track

**1** Start playing the track to be divided into two. Press the ►|| button at the point where you want to divide the track.

**2** Press the EDIT button repeatedly to select "DIVIDE".



DIVIDE  
OK ↵ ENTER

**3** Press the ENTER button.



DIVIDE OK?  
OK ↵ ENTER

To cancel the operation, press the ■/ :OFF button.

**4** Press the ENTER button again.



The track will be divided into two tracks, and the unit will pause at the beginning of the second of the two new tracks.

### To combine tracks

**1** Start playing the last of the two tracks to be combined, and press the ►|| button.

**2** Press the EDIT button repeatedly to select "COMBINE".



COMBINE  
OK ↵ ENTER

**3** Press the ENTER button.



05+ 06 ?  
OK ↵ ENTER

To cancel the operation, press the ■/ :OFF button.

**4** Press the ENTER button again.




The two tracks will be combined, and the unit will be paused at the beginning of the combined track.



## Editing a Recorded MiniDisc (continued)

### To move a track

**1** Play the track to be moved, and press the  button.

**2** Press the EDIT button repeatedly to select “MOVE”.





MOVE  
OK → ENTER

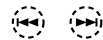
**3** Press the ENTER button.



05 → 01 ?  
OK → ENTER

To cancel the operation, press the  /  :OFF button.

**4** Press the  or  button to select the direction.



05 → 03 ?  
OK → ENTER

**5** Press the ENTER button again.



The track will be moved, and the unit will be paused at the beginning of the track.

### When a track has a name before dividing:

The two new tracks will have the same name. However, in the TOC FULL condition, the second track may not be named.

### Total number of tracks that can be divided:

Each disc can hold up to 255 tracks. However, even if the number of assigned tracks has not reached 254, it might not be possible to make any further divisions of tracks.

### To combine two non-adjacent tracks:

First, put the two tracks next to each other in the order you want using the MOVE function. Then combine them using the COMBINE function.

### When one or both tracks to be combined have a name:

The first track name will be used. However, when the first track does not have a name, the second track name will be used.

### In the following cases, tracks may not be combined:

Tracks recorded by different inputs cannot be combined.

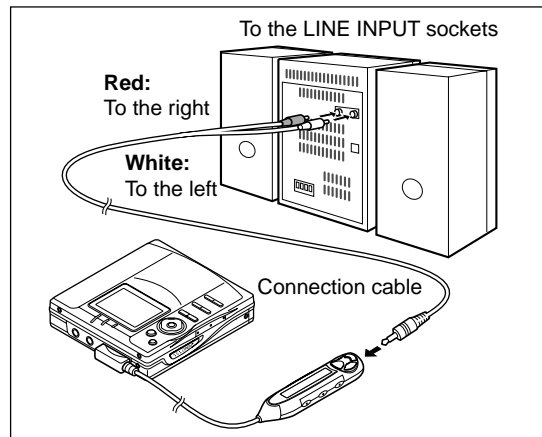
Example:

- Digital recorded track and analogue recorded track.
- Different recording modes (stereo recording, 2 times long recording, 4 times long recording, monaural recording).

Tracks whose recording time is less than 12 seconds.

## Listening to a MiniDisc Through a Stereo System or a Car Stereo

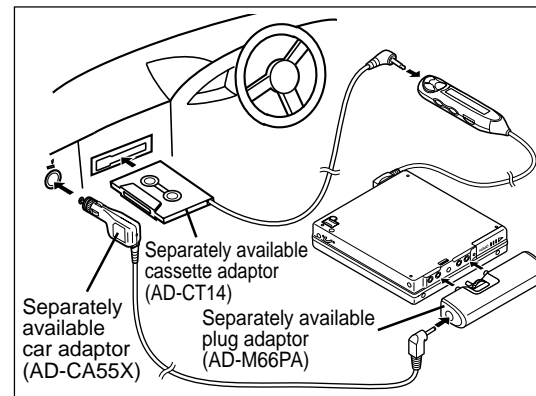
### Listening through a stereo system



#### Notes:

- It is recommended that the volume level of the MiniDisc unit be set to maximum when listening through a stereo system.
- When recording with stereo system, eliminate the confirmation sound (page 41). Otherwise, it will also be recorded.
- The recording will be made in the analogue mode.
- Character information will not be recorded.

### Listening through a car stereo



#### Notes:

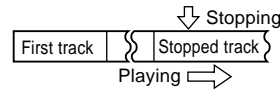
- Adjust the volume of both this portable MD and a car stereo.
- Do not operate this portable MD whilst you drive a car. It may distract your attention and cause a traffic accident.
- Do not use any car adaptor except for the separately available AD-CA55X.
- Remove the battery when you power the unit from the car battery.
- Do not leave the unit in the place of high temperature such as in a car. If the unit gets hot, the LCD display will be darkened and hard to read. It will return to normal when the temperature cools down.



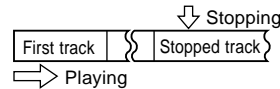
## Other Features and Caution

### Resuming auto play

- When you stop playback and replay the MiniDisc without removing it, playback starts from the point you stopped it.

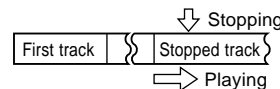


- Once you remove the MiniDisc, playback starts from the first track.



- The unit provides the following functions when you use it with the separately available car adaptor (AD-CA55X) (when the rechargeable or alkaline battery is removed):

1. When you turn off the engine, the power of this portable MD also turns off. (It may not work with some types of cars.)
2. When you restart the engine, playback starts from the beginning of the stopped track.



### Rechargeable battery

- A rechargeable nickel-metal hydride battery is the only kind that can be used. Even if the battery is not used, you should charge it at least once every three months because of the special quality of this battery.
- The rechargeable battery can be charged approximately 300 times.
- When the operating time is reduced to about half the normal amount of time, even after a full charge is performed, replace the battery with a new one (AD-N55BT).
- When the battery is charged for the first time or is charged after not being used for a long period, the operating time may be shorter than normal. The battery life will recover with normal use i.e. charging and discharging.
- To avoid shortening the service life of the battery only recharge the battery after it has been completely discharged.
- If the rechargeable battery is used in a cold environment, the operating time will be reduced.
- Do not carry the battery in your pocket or a bag together with metal objects (keys, coins, jewelry, etc.). The battery may short out and generate significant amounts of heat.
- Do not short-circuit the terminals as they will become very hot and will damage the battery.
- Do not drop or subject the battery to shock.
- Do not insert objects (metal etc.) into the battery compartment of this product or into the rechargeable battery.



## MiniDisc System Limitations

The unit may have the following symptoms whilst recording or editing. The unit is not out of order.

SYMPTOM	LIMITATIONS
<b>“DISC FULL” or “TOC FULL” appears even though the MiniDisc still has recording time left.</b>	More than 255 tracks (maximum) cannot be recorded regardless of the recording time. If the MiniDisc is recorded or edited repeatedly or if it has scratches (recording skips scratched parts), you may not be able to record the maximum tracks above.
<b>The remaining recording time does not increase even though you erased tracks.</b>	The unit does not count non-recorded portions that last 12 or fewer seconds to display the remaining recording time. The time may not increase even if you erase short tracks.
<b>The total of the recorded time and the remaining time does not match the maximum recordable time.</b>	One cluster (approximately 2 seconds) is the minimum unit for recording. For example, a 3-second track uses 2 clusters (approximately 4 seconds). Therefore, the actual recordable time may be shorter than the displayed time.
<b>Combine function does not work.</b>	A MiniDisc on which recording and editing are repeated may not allow the combine function.
<b>Sound skips in fast reverse/forward.</b>	One track is divided and recorded in separate places on a repeatedly recorded or edited MiniDisc. Sound may skip.
<b>A track number is created in the middle of a track.</b>	A track number may be created if there are scratches or dust on the MiniDisc.



## Error Messages

ERROR MESSAGES	MEANING	REMEDY
<b>BATT EMPTY (LoBATT)</b>	<ul style="list-style-type: none"> <li>The battery is run down.</li> </ul>	<ul style="list-style-type: none"> <li>Charge the rechargeable battery or replace the alkaline battery (or use the AC adaptor for power).</li> </ul>
<b>BLANK MD (BLANK)</b>	<ul style="list-style-type: none"> <li>Nothing is recorded.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the disc with a recorded disc.</li> </ul>
<b>Can't COPY (Can'tC)</b>	<ul style="list-style-type: none"> <li>You tried to record from a copy prohibited MiniDisc.</li> </ul>	<ul style="list-style-type: none"> <li>Record using the analogue cable.</li> </ul>
<b>Can't EDIT (Can'tE)</b>	<ul style="list-style-type: none"> <li>A track cannot be edited.</li> </ul>	<ul style="list-style-type: none"> <li>Change the stop position of the track and then edit it.</li> </ul>
<b>Can't READ * (Can'tS) (Can'tT) (Can'tU)</b>	<ul style="list-style-type: none"> <li>The disc data cannot be read because the disc is damaged.</li> </ul>	<ul style="list-style-type: none"> <li>Reload the disc.</li> <li>Replace it with another recorded disc.</li> </ul>
<b>Can't REC (Can'tR)</b>	<ul style="list-style-type: none"> <li>Recording cannot be performed correctly due to vibration or shock.</li> </ul>	<ul style="list-style-type: none"> <li>Re-record or replace it with another recordable disc.</li> </ul>
<b>Can't STAMP</b>	<ul style="list-style-type: none"> <li>Stamp function does not work.</li> </ul>	<ul style="list-style-type: none"> <li>Check the number of tracks.</li> </ul>
<b>Can't WRITE (Can'tW)</b>	<ul style="list-style-type: none"> <li>Cannot save the TOC information correctly to a MiniDisc. (A large portion of the disc has been damaged.)</li> </ul>	<ul style="list-style-type: none"> <li>Replace the disc with another recordable disc.</li> </ul>
<b>CHARGE mode</b>	<ul style="list-style-type: none"> <li>The Charge/Operation switch is not set to the operation mode when using this unit with the AC adaptor.</li> </ul>	<ul style="list-style-type: none"> <li>Set the Charge/Operation switch to the operation mode.</li> </ul>
<b>DEFECT (DEFECT)</b>	<ul style="list-style-type: none"> <li>The disc is scratched.</li> </ul>	<ul style="list-style-type: none"> <li>If the sound you hear is not right, record again.</li> <li>Replace the disc with another recordable disc.</li> </ul>
<b>DISC FULL</b>	<ul style="list-style-type: none"> <li>The disc is out of recording space.</li> </ul>	<ul style="list-style-type: none"> <li>Replace it with another recordable disc.</li> </ul>
<b>Er-MD ** (ErMD*)</b>	<ul style="list-style-type: none"> <li>The microprocessor has reported a system fault and the unit is out of order.</li> </ul>	<ul style="list-style-type: none"> <li>To have it repaired, go to the distributor where you purchased the unit.</li> </ul>
<b>HOLD (HOLD)</b>	<ul style="list-style-type: none"> <li>The unit is in the hold mode.</li> </ul>	<ul style="list-style-type: none"> <li>Return the HOLD switch to its original position.</li> </ul>
<b>LOCKED (Can'tLOCK)</b>	<ul style="list-style-type: none"> <li>You removed a MiniDisc whilst recording or editing.</li> </ul>	<ul style="list-style-type: none"> <li>Turn off the power and remove the MiniDisc.</li> </ul>



ERROR MESSAGES	MEANING	REMEDY
<b>NO DISC</b>	● A disc has not been loaded.	● Load a disc.
<b>NO SIGNAL (noSIG.)</b>	<ul style="list-style-type: none"> <li>● Poor connection of the digital cable.</li> <li>● No output signal comes out from the connected unit to playback.</li> <li>● The input signal has improper sampling frequency.</li> </ul>	<ul style="list-style-type: none"> <li>● Connect the digital cable securely.</li> <li>● If the portable CD player has a function to prevent sound skips, deactivate it.</li> <li>● Playback with the connected unit.</li> </ul>
<b>PLAY MD (PLAYmd)</b>	● You recorded on a playback-only disc.	● Replace it with a recordable disc.
<b>POWER ?</b>	● The battery charger is defective.	● To have it repaired, go to the distributor where you purchased the unit.
<b>PROTECTED</b>	<ul style="list-style-type: none"> <li>● The write protection tab of a MiniDisc is set to the protected position.</li> <li>● You tried to record on a playback-only disc.</li> </ul>	<ul style="list-style-type: none"> <li>● Move the write protection tab back to its original position.</li> <li>● Replace it with a recordable MiniDisc.</li> </ul>
<b>SORRY (Sorry)</b>	● Since a track number is currently being located or updated, the unit cannot accept your command.	● Wait for a while and try the operation again.
<b>TEMP OVER (TEMP!)</b>	● The temperature is too high.	● Turn off the power, and wait for a while.
<b>TOC FORM ** (Tform**)</b>	● There is an error in the recording signal.	● Erase all of the tracks, and then record again.
<b>TOC FULL</b>	● There is no space left for recording character information (track names, disc names, etc.).	● Replace it with another recordable disc.
<b>Tr. Protect ? DISC (? DISC)</b>	<ul style="list-style-type: none"> <li>● The track has been protected from being erased.</li> <li>● A disc which contains data other than music was played.</li> <li>● There is an error in the signal recorded on the disc.</li> <li>● Stamping is not possible.</li> </ul>	<ul style="list-style-type: none"> <li>● Edit the track with the device on which it was recorded.</li> <li>● A disc which contains non-music data cannot be played.</li> <li>● Replace it with another recorded disc.</li> <li>● Retry.</li> </ul>

( ) : Error messages seen on the remote control.  
Number or symbol appears in \* position.



# Troubleshooting

Many potential “problems” can be resolved by the owner without calling a service technician. If something seems to be wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

PROBLEM	CAUSE	PROBLEM	CAUSE
<b>The unit does not turn on.</b>	<ul style="list-style-type: none"> <li>● Is the AC adaptor disconnected?</li> <li>● Is the battery exhausted?</li> <li>● Is the unit in the hold mode?</li> <li>● Has condensation formed inside the unit?</li> <li>● Is the unit being influenced by mechanical shock or by static electricity?</li> </ul>	<b>The MiniDisc cannot be ejected.</b>	<ul style="list-style-type: none"> <li>● Has the track number or character information been updated on the disc yet?</li> <li>● Is the unit in the recording or editing mode?</li> </ul>
<b>No sound is heard from the earphones.</b>	<ul style="list-style-type: none"> <li>● Is the volume set too low?</li> <li>● Is the remote control unit or the earphones plugged in?</li> <li>● Are you trying to play a MiniDisc with data on it instead of a MiniDisc containing music?</li> </ul>	<b>Recording and editing are impossible.</b>	<ul style="list-style-type: none"> <li>● Is the MiniDisc protected against accidental erasure?</li> <li>● Is the unit connected properly to the other equipment?</li> <li>● Is the AC adaptor unplugged or did a power failure occur whilst recording or editing?</li> <li>● Is the unit in the hold mode?</li> <li>● Is an optical signal being output from the stereo system? Read the operation manual for the stereo system.</li> </ul>
<b>When the operation buttons are pressed, the unit does not respond.</b>	<ul style="list-style-type: none"> <li>● Is the unit in the hold mode?</li> <li>● Is the battery exhausted?</li> <li>● Is the remote control unit plug or the earphones plug inserted firmly?</li> </ul>	<b>The battery cannot be charged.</b>	<ul style="list-style-type: none"> <li>● Is the select switch for charging/operation set on the charging side?</li> <li>● Is the socket clean?</li> </ul>
<b>Some sounds are skipped.</b>	<ul style="list-style-type: none"> <li>● Is the battery exhausted?</li> <li>● Is the unit being subjected to excessive vibration?</li> </ul>	<b>Nothing appears on the remote control display.</b>	<ul style="list-style-type: none"> <li>● Is the remote control display set to “LIGHT OFF”?</li> </ul>





### If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

#### If such a problem occurs, do the following:

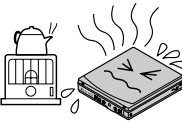
1. Unplug the AC adaptor from the wall socket.
2. Remove the battery.
3. Leave the unit completely unpowered for approximately 30 seconds.
4. Plug the AC adaptor back into the wall socket and reoperate the unit.

### Moisture condensation

When the unit has condensation inside, the disc signals cannot be read, and the unit may not function properly.

In the following cases, condensation may form inside the unit.

- Shortly after turning on a heater.
- When the unit is placed in a room where there is excessive steam or moisture.
- When the unit is moved from a cool place to a warm place.



#### To remove condensation:

Remove the MiniDisc and leave the unit for approximately 1 hour. The condensation should evaporate and the unit will work properly.

## Maintenance

### ■ Cleaning

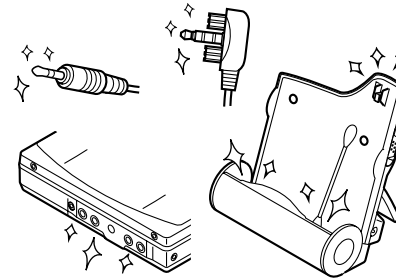
#### When the unit becomes dirty

Clean it with a soft cloth.

When the unit is excessively dirty, use a soft cloth dampened in water (external surfaces only).

#### Clean the plugs and the connecting socket.

If the plugs or sockets are dirty, noise may be heard. Cleaning will prevent noise.



#### Caution:

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.




## Specifications

As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice.  
The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

<b>Power source</b>	DC 1.2V: Rechargeable Nickel-Metal Hydride battery (AD-N55BT) x 1 DC 5V: AC adaptor (AC 110 - 240V, 50/60 Hz) DC 1.5V: Commercially available, "AA" size (LR6), alkaline battery x 1 DC 1.5V: Separately available car adaptor, AD-CA55X (for cars with a 12-24V DC negative earth electrical system) (Used with separately available plug adaptor (AD-M66PA))
<b>Power consumption</b>	0.15A (AC adaptor)
<b>Output power</b>	RMS; 10 mW (5 mW + 5 mW) (0.2% T.H.D.)
<b>Charging time</b>	Approx. 3.5 hours
<b>Input sensitivity</b>	MIC H: reference input level 0.25 mV input impedance 10 k ohms MIC L: reference input level 2.5 mV input impedance 10 k ohms LINE: reference input level 100 mV input impedance 20 k ohms
<b>Output level</b>	Earphones: maximum output level 5 mW + 5 mW load impedance 32 ohms LINE: specified output 250 mV (-12 dB) load impedance 10 k ohms
<b>Dimensions</b>	Width: 71.9 mm (2-27/32") Height: 16.8 mm (11/16") Depth: 78.7 mm (3-1/8")
<b>Weight</b>	131 g (0.29 lbs.) with rechargeable battery
<b>Input socket</b>	Line/optical digital, microphone (powered by the main unit)
<b>Output socket</b>	Earphones (impedance: 32 ohms)/remote control unit
<b>Type</b>	Portable MiniDisc recorder
<b>Signal readout</b>	Non-contact, 3-beam semi-conductor laser pick-up
<b>Audio channels</b>	Stereo 2 channels/monaural (long-play mode) 1 channel
<b>Frequency response</b>	20 – 20,000 Hz (± 3 dB)



<b>Rotation speed</b>	Approx. 400 – 1,350 rpm					
<b>Error correction</b>	ACIRC (Advanced Cross Interleave Reed-Solomon Code)					
<b>Coding</b>	ATRAC/ATRAC3 (Adaptive Transform Acoustic Coding), 24-bit computed type					
<b>Recording method</b>	Magnetic modulation overwrite method					
<b>Sampling frequency</b>	44.1 kHz (32 kHz and 48 kHz signals are converted to 44.1 kHz, and then recorded.)					
<b>Wow and flutter</b>	Unmeasurable (less than $\pm 0.001\%$ W. peak)					
<b>Battery life</b>						
	Stereo		2 times long		4 times long	
When using the rechargeable battery (fully charged) included with the unit	Continuous recording: Approx. 6.5 hours	Continuous play: Approx. 12 hours	Continuous recording: Approx. 9 hours	Continuous play: Approx. 13.5 hours	Continuous recording: Approx. 11.5 hours	Continuous play: Approx. 15 hours
When using one, commercially available, high capacity, "AA" size (LR6), alkaline battery (The rechargeable battery is in the unit, discharged.)	Continuous recording: Approx. 6 hours	Continuous play: Approx. 16 hours	Continuous recording: Approx. 10 hours	Continuous play: Approx. 19.5 hours	Continuous recording: Approx. 13 hours	Continuous play: Approx. 22 hours
When using one, commercially available, high capacity, "AA" size (LR6), alkaline battery with the rechargeable battery (fully charged)	Continuous recording: Approx. 15 hours	Continuous play: Approx. 29 hours	Continuous recording: Approx. 22 hours	Continuous play: Approx. 33 hours	Continuous recording: Approx. 30 hours	Continuous play: Approx. 40 hours
<ul style="list-style-type: none"> <li>● The above values are the standard values when the unit is operated horizontally and charged at an ambient temperature of 25°C (77°F). (The operable duration with the rechargeable battery will be shorter when the unit is carried around.)</li> <li>● The volume level is set at "VOL 15".</li> <li>● The LED is set at "LIGHT OFF" (see page 41).</li> <li>● Operable duration with a commercially available battery varies depending on its maker, type, and conditions of use.</li> <li>● "Fully charged" means that the charging is complete after approximately 3.5 hours since the remaining amount of the battery is reduced to "  " (1 bar).</li> </ul>						



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